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June 14, 1991

Michael P. Morris, Esq.
Fish & Neave
875 Third Avenue
New York, New York 10022-6250

Re: PM 1502
Use of Very High Surface Area Magnesium
Carbonate as Filler for Low Sidestream Papers

Dear Michael:

Per Charlie Smith, I understand that you and John Hintz will be coordinating the magnesium base filler cases.

I have looked at the prior art in our internal patent database and files on cigarette wrapper additives and paper additives, particularly for high surface area inorganic fillers or additives in conjunction with any of the uses disclosed in PM 1502. These included the use of magnesium carbonate for reduction of sidestream smoke or alteration of burn characteristics, adsorption or reduction of sidestream odor, or as carrier material for incorporating flavorants or catalysts in paper.

Search results are grouped as follows:

- a) Magnesium carbonate additives in cigarette paper;
- b) Magnesium carbonate additives in tobacco (as a filler to affect burn characteristics or as an absorbent material for smoke components);
- c) Magnesium carbonate or alkali metal carbonates as carrier materials;
- d) General background on particle size/surface area of inorganic filler additives in paper.

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Earlier searches have been conducted for two related cases. PM 1494 (*Novel Fillers for Smoking Article Wrappers and Method for Making Same*); and PM 1518 (*Paper Wrapper Having Improved Ash Characteristics*) I reviewed these search results for patents disclosing use of magnesium carbonate. (PM 1518 is a disclosure for the use of a calcium carbonate filler having a fine particle size/high surface area).

There are several other related cases in preparation:

PM 1397 (*Synthesis of Magnesium Carbonate/Calcium Carbonate by the Sol-Gel Process for Use as Cigarette Paper Additives and Fillers to Reduce Sidestream*);
PM 1444 (*Wrapper for A Smoking Article*);
PM 1511 (*Magnesite/Magnesium Hydroxide Fillers for Smoking Article Wrapper*); and
PM 1530 (*Preparation of Novel Compositions for Use as Filler for Cigarette Papers*) (directed to fine particle size).

You may wish to take a look at these cases to correlate the prior art.

Clay Wilson has just reviewed subject disclosure PM 1502 in view of PM 1444, PM 1494 and PM 1511 and made suggestions for handling these related applications. Please see his letter of June 4, 1991.

In addition, there are two closely related disclosures, D-491 and D-494 which Eric Lee had reviewed sometime back. I am enclosing these for consideration with 1502 and the other magnesium carbonate cases.

D-491 (*Paper Prepared with Magnesium Carbonate as the Mineral Filler to Reduce Sidestream Smoke*); and
D-494 (*Paper Prepared with a CO₂ Precipitated Derivative Of Dolomite to Reduce Sidestream Smoke*).

The other two disclosures enclosed, D-480 and D-685, are also related in addressing sidestream reduction via particle size (surface area) of inorganic fillers. These are new disclosures, i.e., not yet reviewed by Fish & Neave. Please review the disclosures and related cases and let us know your recommendations on whether any of these should be combined.

Sincerely,



Beverly A. Monroe

BAM/drs

cc: Charles E. B. Glenn, Esq.
Charles B. Smith, Esq.
John M. Hintz, Esq.

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bcc: Copy of search in the following D files:

D-480, D-491, D-494, D-683, D-685, D-689, D-696, D-715 and other PM files related

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